

REMARKS

Claims 1-5, 18-21 and 23-36 are pending in the application. Claims 1-4, 18, 24, 26 and 27 have been amended. Claims 6-17 and 22 have been cancelled. Claims 31-36 have been added.

An early action on the merits is requested and, should the Examiner have any questions or comments regarding the foregoing amendments, the Examiner is invited to telephone the undersigned at the number listed below.

Respectfully submitted,



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
Jang et al.

Serial Number: 10/025,590

Filing Date: December 18, 2001

Title: METHOD AND SYSTEM FOR
PREVENTING ACCESS OVERLOAD
IN MOBILE PHONE SYSTEMS

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Group Art Unit: 2681

Attorney Docket: 22171.297

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REDLINE VERSION

1. (Amended) A method for selective call blocking in a communications network during an access overload condition:

detecting a plurality of simultaneous access requests from a plurality of mobile terminals, wherein the number of access requests exceeds capacity of a portion of the communications network, and transmitting to the plurality of mobile terminals a message indicating a subset of the plurality of mobile terminals, the mobile terminals in the subset being prevented from accessing one or more service options or service option groups, or making calls of selected call types within the network, wherein the subset of mobile terminals are identifiable by unique identity numbers.

2. (Amended) The method of claim 1 further comprising indicating the number of service options or service option groups by at least one parameter in the message.

3. (Amended) The method of claim 2 further comprising dynamically selecting the subset based on a classification of the mobile terminals.

4. (Amended) The method of claim 3 further comprising mapping the classification from unique identity numbers of the mobile terminals to one or more decimal values, wherein the decimal values are associated with the identity numbers.

18. (Amended) A node in a communications network, wherein the node has instructions for: detecting a plurality of simultaneous access requests from a plurality of mobile terminals, wherein the number of access requests exceeds capacity of a portion of the communications network, and transmitting to the plurality mobile terminals a message indicating a subset of the plurality of mobile terminals, the mobile terminals in the subset being prevented from accessing the network for one

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cancel - or more service options or service option groups,

wherein the subset of mobile terminals are identifiable by unique identity numbers.

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24. (Amended) A communications device comprising:

a processor,

a radio transceiver coupled to the processor,

a memory coupled to the processor, wherein the memory contains instructions for:

periodically receiving an access control message, and

determining whether the mobile communications device is subject to restrictions to one or more service option or service option groups indicated by the access control message, if yes, then storing indicators in the memory for later use.

26. (Amended) The communications device of claim 24 wherein the determining instruction further comprises:

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(a) reading a service indicated by the access control message,

(b) reading a class associated with the service,

(c) determining if the mobile communications device is a member of the class based on a unique identity number associated with the communications device, if yes, then storing an indicator associated with the service,

(d) repeating steps a through c for each service contained in the access control message.

27. (Amended) The communications device of claim 26 wherein step (c) further comprises determining if the mobile communications device is a member of the class using the last digit of the unique identity number associated with the mobile communications device.
